NLIT Summit National Laboratories Information Technology

Monday, June 21

Keynote Speaker

8:30 AM

Darwin A. John

Darwin John is currently an adviser to the director of the Federal Bureau of Investigation and to Blackwell Consulting Services in Chicago. He is also a member of the "FBI Science and Technology Advisory Board," which was set up by Congress in 2003 and organized in the fall. The board has eight members. Previously, Mr. John held CIO-level positions at the FBI, the Church of Jesus Christ of Latter-day Saints, and the Scott Paper Company. Additionally, he has served as President of the Society for Information Management.

Mr. John began his career as an engineering aide at Thiokol Chemical Corporation while completing a bachelor's degree in production management and an MBA from Utah State University. After 10 years, he was recruited as a systems analyst for Thiokol's Information Systems Department. He later spent a brief time working in the information systems area at Honeywell and then moved on to General Mills, where he eventually attained the number two position in the information systems organization. In 1983, he was recruited into the top IT job at Scott Paper, where he was named CIO. In 1989, the Church of Jesus Christ of Latter-day Saints asked him to lead the IT and Communications Department and in July 2002, he was chosen to become the CIO of the FBI. He was charged with transforming the bureau into an IT powerhouse. Mr. John accepted the job because he wanted to take on "the Everest of IT challenges." He retired from the FBI in May 2003, at the age of 65.

Presentation Abstracts

9:45 AM

Panel Session - Site IT Status & Updates

Dale Land – Chairman, LANL

This session will provide you with an overview of different site computing activities. Representatives from the various sites will provide a brief description of the current status of their computing environments to include networks/hosts and platform demographics. They will also highlight any new computing initiatives that are in progress, new implementations, metrics, and challenges facing their locations.

Windows Infrastructure Server Event Log Collection and Monitoring

Phil Kuhlman - SNL

Sandia is collecting the event logs (security, system, application, etc) from their Windows Infrastructure Servers to an SQL database. From that database, reports are created on security events, privilege elevation, and system errors. The database is also available for forensics and auditing activities. This presentation will detail the collection infrastructure, database, archive and reporting that is done at Sandia.

Accessing Windows Applications from Non-Windows Platforms
Suzanne Willoughby - ORNL
As more of ORNL's administrative applications moved to Windows-based systems, the laboratory was faced with needing to provide access for those users who are on non-Windows platforms. To address this need, the Citrix Metaframe XP solution was selected and implemented at ORNL. This presentation will focus on ORNL's implementation decision, the current functionality that has been implemented, and future plans to take advantage of additional capabilities that this technology has enabled.

Visualization of the Attila Radiation Transport Code Results Using Standard Visualization Tools
James A. Galbraith - INEEL
Results from Attila, a deterministic neutron transport code running on a CRAY SV1, was imported into VisIt, a standard parallel 3D visualization tool, for analysis and display on a power wall. Standard output files, consisting of tetrahedral meshes and node data were imported to VisIt through the creation of an Attila specific plug-in module. Different plot types, operators, and domain hiding are all utilized to enhance the analysis and to assist in reporting the results of the analysis. A model of the Advanced Test Reactor (ATR) at the INEEL, the largest Attila model ever created, is used for demonstration.

10:45 AM

Panel Session – Site IT Status and Updates
Troy Juntunen – Chairman, PNNL
Representatives from various locations will provide a brief overview of new computing initiatives, new implementations, metrics, and challenges facing their organizations.

Scanning and Configuration Management
Jeff Taylor – SNL
Scanning systems is easy; it's getting the scan results out to the proper individual to fix the vulnerability that is difficult. Having the proper policies in place so system administrators know how to configure systems is just as important. SNL developed a system to inform management, system administrators, and users what they need to do to keep systems and networks secure.

Project IRIS
Frank Clark – LANL
Project IRIS (Individual Responsibility for Intranet Security) is an educational program designed to bring a heightened level of knowledge to end users where matters of network security are concerned. The goal is to bring accurate information and education to users concerning the threats they face every day, as well as their responsibilities as computer users in their environment. The presentation will offer reasoning behind the need for more end-user education, and give samples of educational programs for end users that are effective as well as economical. Materials for attendees to take with them will include a sample IRIS class, and templates for handout materials.

Patching Red Hat Linux Systems Using Network Satellite Server
Neal Mackanic – LLNL
The Red Hat Network (RHN) Satellite server is a locally hosted version of the RHN patching server. This presentation will detail the use of the RHN Satellite server at LLNL, including installation, capabilities, administration, security, Red Hat support, and futures. If you are looking for ways to manage your Red Hat Linux system configurations and patches, come to this presentation.

1:00 PM

Patch Management Selection Process
David Frye - LLNL
The recent need to patch systems on a monthly basis, if not more frequently, has led LLNL to explore a tool for Windows systems to automate this process across the enterprise. LLNL is completing an extensive review of over 15 vendor products and have developed a set of requirements for selecting a patching product. This presentation will review their process, requirements, and product selection.

Integrating Information Technology Infrastructure Strategy, Architecture, and Project Management via a Content Management System
Rex Stratton (Trav) - PNNL
This presentation discusses PNNL's approach to ensuring high-quality capability and stewardship of the Pacific Northwest National Laboratory's information technology (IT) infrastructure. It is critical that an organization's IT infrastructure be aligned with and enhances the organization's potential to achieve its strategic business objectives. Alignment and management of their IT infrastructure is accomplished through three tightly integrated processes: strategic planning, strategic architecture development, and project portfolio management. Central to integrating and managing the content developed by these processes is the Information Resource Inventory (IRI), an evolving content management system. The IRI manages an integrated information substructure of fundamental content that is generated by, maintained in, and shared between each of the processes. The use of the IRI allows each process to be executed more efficiently and increases the quality of the information.

Role-Based Access Control: A Better Way to Manage Access
Kevin Piatt - PNNL
This presentation will cover what RBAC is and how it can benefit an enterprise, and will close with a discussion of the RBAC system developed and in use at PNNL. The Pacific Northwest National Laboratory is using a Role-Based Access Control (RBAC) system to help assure that the right information gets to the right people. An RBAC system enables the dissemination of information based on who is requesting it (e.g., administrator, researcher, manager, and staff). Further, RBAC can prescribe not only who or what process may have access to a specific system resource, but also the type of access that is permitted. For example, the role of staff would be granted access to view and digitally sign his or her own time report, the role of administrator might be granted access to view all time reports, and role of manager (or his/her delegate) would be granted access to view and sign the time reports for an entire group.

Excellence in Customer Service - Setting and Managing Customer Expectations
Tom Seals - SNL
No matter how high the quality of your products and services are, if the expectations of your customer are not met, you will fail at customer satisfaction. Setting and managing those expectations is the most critical piece to maintaining great customer satisfaction. If you don't set and manage your customer's expectations, they will do it for you! Through real world examples, SNL will explore the methods used to set expectations up front and manage them throughout the transaction with the customer.

Vectorization of the Attila Code on a Cray SV1 Computer
Peter Cebull - INEEL
The Attila radiation transport code, which solves the neutron transport equation on three-dimensional tetrahedral meshes, was ported to the Cray SV1. Attila is used at the INEEL to perform analyses of the Advanced Test Reactor (ATR), and the model that was run is the largest Attila ATR model ever created. Cray's performance analysis tools were used to pinpoint the most significant areas of code, which were then modified to allow full vectorization and improve performance. Timing results are given, including those for some non-vector platforms such as an SGI Origin 3800, Sun Enterprise 4800, and an Option-based PC. Parallel scalability of the Open MP version of the code will also be discussed.

QWest Government Services Division: Optical Networking Update - An Industry View
Dr. Wesley Kaplow, Chief Technology Officer
Although there has been a significant lag in the investment in new nationwide optical networking infrastructure, many changes are taking place in the telecommunications industry. This talk will discuss the technical issues of current and emerging vendors of optical equipment. As a provider of optical networking systems, for both traditional leased services as well as turnkey customer-owned systems, Qwest's Technology Management group continues to evaluate vendor's technology as well as examine life-cycle cost effectiveness. In addition, some outstanding items for research will be discussed, such as user control of optical network configurations and the application of 40 Gbps systems.

2:00 PM

Making Desktop Support Technicians More Effective and Efficient through the Use of In-house Tools
Dean Williams - SNL
Sandia/CA has developed a collection of tools to assist desktop technicians. These tools include the Electronic Network Action Form, universal computer images for both desktop and laptop computers, and a series of process checklists. The tools will be discussed as well as how they have improved the desktop support model at Sandia/CA.

Plan of Action for Improving Efficiency and Effectiveness
Warren Scoggins - LANL
Los Alamos National Laboratory, operated by the University of California, has always enjoyed a highly academic work environment that is deeply rooted in the culture, and this has certainly helped make it the distinguished, cutting-edge, science-based research institution that it is today. The traditional philosophy of open information sharing and collaboration among its disciplines has naturally induced rapid growth in both its intranet (internal web) and external web content.

Sandia Anywhere – Sandia's Remote Access Web Site
Scott Stephens – SNL
"Sandia Anywhere" is a set of capabilities that allow users a variety of options for remotely accessing internal Sandia network resources. The current suite of options consists of the Sandia Reverse Proxy (secure web access to internal web based information and applications), Sandia Web Mail (web-based access to a user's corporate e-mail account), Remote Desktop (Terminal Server access to the internal Sandia network), as well as information regarding VPN and Dial-up configurations for Windows, UNIX, and Macintosh computers. The newest of these capabilities is the Remote Desktop feature. Using Citrix-based technology, Sandia has implemented a Secure Gateway that enables remote access to workstations through a web browser and a Citrix client (installable from the Sandia Anywhere site).

Use of Server Virtualization in the Enterprise
Mark Nelson – INEEL
The INEEL is utilizing server virtualization to help consolidate new and existing servers. Through virtualization software, multiple server instances can be installed and serviced from a single hardware platform. Through the use of virtualization, the INEEL has consolidated 30 standalone single-purpose servers onto two-server platforms running virtualization software. This presentation will discuss the opportunities and obstacles associated with using virtualization technologies in your environment.

LANL's Expressway Red Hat Development
Matt Riedel - LANL
ExpressWay Red Hat was developed to complement LANL's existing line of ExpressWay products which install operating systems over the network and configure them for use on the LANL "Yellow" network. ExpressWay Red Hat was designed to allow for the field administrator to install and configure any of three Red Hat distributions over the network, automatically, from a single CD (versions 7.3, 9 and Workstation 3.0 are supported). It was also designed to allow flexibility for different organizations to use custom finish scripts, without having to reburn or customize the ISO image. ExpressWay Red hat will, if the user wishes, register itself with the LANL Red Hat Satellite Server, and assign itself to the appropriate administrative groups and software channels. Currently, ExpressWay Red Hat is nearing version 2.1 and a full production release.

Infrastructure Consolidation
Mark Vuong - Consulting Services Principal, Dell
Today most companies are considering server consolidation. Resource requirements and server farms are continually growing, and the time and costs of supporting these services grow too. While many organizations aim to create a consolidation strategy that eliminates unnecessary hardware, software, and applications, few may be able to implement successfully. Server consolidation makes sense financially. Distributed costs of maintenance and support are decreased across the enterprise as the site and server numbers decrease while increasing server power. Server consolidation allows companies to implement enhanced IT infrastructure that can support expansion without increasing IT staff.

As corporations consider Server Consolidation, providing the customer with an assessment of their organization's readiness is imperative. Dell's comprehensive Infrastructure Consolidation Readiness service is designed to enable a quick assessment along with the appropriate amount of information to consider next steps. Drawing from many years of experience, Dell Professional Services consultants outline challenges a customer will face and the strategies to avoid them across the enterprise. Dell Professional Services assist our customers in standardizing and simplifying their environment to reduce costs and improve performance, scalability, and availability.

3:00 PM

Building Your Wireless Data Strategy for the Future at High Speed
Laureen Lawrence, Manager, Verizon Wireless Communication
Verizon Wireless is the nation's leading provider of wireless communication. The company has the largest nationwide wireless voice and data network. Verizon Wireless currently has 31.5 million customers. Verizon Wireless has invested more the $8 billion in its network over the past two years; and with these upgrades, the company has expanded coverage and enhanced its network nationally. Verizon Wireless offers innovative, competitively priced voice and data products accompanied by BEST IN CLASS Customer Service.

Insight and Solutions
Jack Frost – Director, PlanetGov Inc.
PlanetGov provides network engineering design, enterprise management, Voice over IP (VoIP) and AVVID engineering, wireless networking design, and end-to-end software development services, as well as desktop computers, servers, and networking products. For 20 years, PlanetGov has specialized in providing state-of-the-art information technology and service for Federal Government clients. They are a privately held information technology solutions provider with expected revenues for 2004 over $400 million. Their expertise includes: Hardware design, installation, and operation; enterprise, network and systems management; enterprise e-mail solutions and migrations; network security; system architecture; Cisco AVVID, VoIP, & VTC; desktop and network hardware and software; worldwide warranty/ maintenance fulfillment; help desk and NOC operations; software and database development; infrastructure planning and installation; virtual private networking; and training.

Sun's Vision for Secure Solutions for the Government
Jim Mitchell – Vice President, Sun Labs
The increasing need for investment in security is becoming increasingly apparent as there are more and more opportunities for those outside the network to enter - invited or not. Sun's value proposition is to enable the government through built-in security. Their core products and platforms, including Java, Trusted Solaris, and hardware, were built with security as part of the architecture. Sun technologies therefore enable government agencies while reducing the unpredictable costs of breaches and patchwork security. With built-in security, government agencies can protect the integrity of their data and systems while accelerating the delivery of anytime, anywhere access with confidence.

Getting the Most from Your PC Manufacturer
Ron Clevenger, VP of Federal Sales and Adam Lerner, Executive VP of Sales and Marketing, MPC Formerly micronpc
How can you be sure that you are getting the best products, the best service, and the best prices in the market place from your PC manufacturer? MPC Computers will provide a behind-the-scenes' perspective. Step behind the walls of a computer manufacturer. Find out about all of the value-added services that are available to you for little to no additional charge throughout the lifecycle of your investment.

Windows Server/Windows Workstation
Todd Gagorik, Microsoft
Microsoft will present an overview of Windows 2003 Server and discuss some of the new features added to the operating system to enhance security, reliability and manageability. In addition, Microsoft will look at the refinements applied to their development model and the implications it has for building secure operating systems. The following areas will be examined:

Microsoft Windows 2003 Overview
Active Directory Enhancements
Secure By Design: A New Approach to Development
Looking Ahead: Longhorn & R2

Maximizing Gartner - Performance Metrics (IT optimization, TCO) programs and Research Deliverables

Charles Peacock, Vice President, and Joe Clarke, Gartner, Inc.

Establishing a performance management program is an evolutionary process that allows for different levels of benchmarking and assessment to ensure that people, processes, and technology are continually aligned with business goals. An enterprise approach to performance management enables the sharing of best practices and creates a common baseline that supports capital planning, strategic sourcing, and other enterprise IT management activities. A performance management program initially focuses on "*status*" to gain a high-level understanding of staffing and spending and how an organization compares with its internal and external peers to identify where the area for improvement. Next, in the "*decision*" phase, a more detailed assessment may be conducted to identify what specific steps should be performed to deliver greater cost-efficiency and improved service delivery. Finally, "*optimization*" is a holistic approach to the refinement and improvement of a well-structured, well-managed IS organization already aligned with the business goals. Gartner will present an overview of its approach to performance management and demonstrate the benefits of taking an enterprise approach. Supplemental discussion on what you may not know about Gartner research deliverables and expanded service offerings.

Birds of a Feather Session- NWC Intersite Help Desk Agreement

Moderator: Mary Adams, SNL

The NWC Intersite Agreement was ratified last December by sites across the NWC (KC, LANL, LLNL, Pantex, Savannah River, SNL, and Y-12). The intent of the Agreement is to provide seamless support for remotely hosted applications and infrastructure services across the NWC. This session is intended to bring interested parties up-to-date on the implementation of the agreement and discuss current initiatives and issues.

Birds of a Feather Session – Deploying Java Applications on the Desktop

Moderator: Frank Buonomo, ANL-E

This informal session will enable a discussion among participants regarding lessons learned, issues, and methodologies in deploying JAVA applications on the desktop. Anyone interested is invited to attend and participate.

Tuesday, June 22

Keynote Speaker

8:00 AM

Keynote Speaker
Stephanie Fohn
Ms. Fohn has a broad base of management and entrepreneurial experience, with particular expertise in information security. Currently, she serves as an advisor and consultant in the security industry, working with companies such as WhiteHat Security, BigFix and Latis Networks. Most recently, she was president and chief operating officer of SecurityFocus, a provider of enterprise security threat management systems. She led the company to a dominant industry position, resulting in its acquisition by Symantec in August 2002. Previously, she served as vice president of marketing and business development for Tripwire, Inc., and director of distribution partnerships for Infoseek/Go Network. She also co-founded and led two start-ups – Lucidian Technologies, a developer of network-based intrusion detection software, and The WWWorks, a web development firm focused on e-commerce and database integration. Ms. Fohn began her career in the security industry as director of business development for Pilot Network Services, Inc., one of the industries's first managed security service providers. Prior to joining Pilot, she spent six years in venture capital and investment banking in the technology arena. Ms. Fohn holds an master's degree in management from the Massachusetts Institute of Technology and bachelor's degrees in business and psychology from the University of Washington.

Presentation Abstracts

9:00 AM

Minimizing Insider Threats: The Human Factor
Joseph Kieltyka - SNL
A significant trend in the field of Computer Security has been the increased problem of insider threat. Insider threat has gradually increased in terms of its prevalence relative to outsider threats, now comprising as much as 50% or more of all security incidents. But even more pronounced is the increase in the proportion of damage, both financial impact and loss of data caused by insider incidents compared to outside. Many studies report that the damage caused by insider threats now exceeds that caused by outside sources. Much attention is paid to technical solutions aimed at thwarting, minimizing, and mitigating the insider threat to security. These range from partitioning of the internal network along with internal firewalls and IDS, to surreptitious monitoring, to hardening of systems, to authentication/ authorization/need-to-know. While these measures are essential, especially in a high-security environment, it is easy to overlook some of the softer, human-relations oriented measures that can be taken to address the insider threat. An understanding of the motivations of potential insider threats as well as an insight into attitudes and beliefs about the workplace and role as supervisors and managers can lead to a reduction in the risk and frequency of some types of insider intrusions. If paying attention to these factors can reduce both the risk of insider threats and the frequency of incidents, the technical solutions will be more effective dealing with the remaining threats. This presentation explores different types of insider threats and the motivational issues associated with them, and presents some possible solutions aimed at reducing some of these threats.

BlackBerry Devices - Use and Lessons Learned
Frank Buonomo- ANL-E
This presentation will be an overview of using BlackBerry devices in the enterprise. The following subjects will be covered: devices, e-mail configuration, service providers, security, and an overview of ANL usage, costs, and lessons learned.

SNL Portal Project Status
John Mareda - SNL
Sandia is in the process of redesigning their internal Web to be based on portal technology. A main advantage will be allowing end users to customize which information and applications are presented to them, based on their interests and needs. The project began with an extensive requirements gathering phase followed by an in-depth evaluation of offerings from the leading vendors. Vignette was chosen as the vendor. The software has been purchased and installed and training is underway. This presentation will provide an overview of the process, pitfalls encountered along the way, and current status of Sandia's redesign for their internal Web to be based on portal technology.

Simplified User Management with Directory Services
Lynne Reeder - INEEL
In an effort to reduce user administration on various operating systems, the INEEL is automatically creating and deleting user accounts on Lotus Notes and Active Directory using a variety of products, including the Critical Path Directory Services (CPDS). As changes are made to data in the systems that feed the directory, such as Security, Human Resources, and Computer Registration, automated processes monitor the changes and send the appropriate information to Lotus Notes and Active Directory to create, modify, and delete user accounts. UNIX authentication solutions using LDAP are being developed and deployed. Using the built-in LDAP authentication interfaces in UNIX systems, user logon requests are directed to the directory for password authentication and retrieval of logon information. This presentation will discuss the functionality and touch on configuration of the various products to implement the automated processes.

A Tablet-Based, Wireless Data Recording System for Waste Retrieval Operations at the INEEL
Luke White, Jeanette Frasure - INEEL
This presentation provides the original geostatistical modeling (a GIS-based product) used to determine the most likely place for the excavation project (three-dimensional movies of the subsurface in the vicinity of the dig). The design and fielding strategies for the very rapid development and deployment of the system, the wireless strategy adopted along with the security issues that were surmounted during the development and fielding of this application, and the summary findings of the excavation project will be presented. Finally, the result of the dig will be shown that reconstructs the observations, again using geostatistical modeling of the final database.

Growth Organizations Successfully Manage Change
Dennis Self, Hewlett Packard
Well-managed change improves the health of your corporation. It's change "that would do you good." The key in today's rapidly evolving environment is to thrive on change. To embrace it and to ensure IT remains an increasingly competitive asset of your corporation. Today's enterprises require an IT that is highly adaptable to new business initiatives while using technology to deliver predictable, innovative solutions at a lower total cost of ownership and with reduced risk. It requires change that embraces industry-standard architectures, modular components and consistent implementations.

10:00 AM

Desktop Security Management
Diane McVeigh - PNNL
Today's cyber security officers must employ innovative techniques to meet the challenges of these new threats to corporate networks. PNNL employs several computer security methods on their heterogeneous environment, including network intrusion detection, virus and spy ware protection, and security patch deployment for networked and unmanaged systems (e.g., employees' home systems).

Active Directory Infrastructure Deployment
Eric Eichenlaub – LLNL
In the past year, LLNL has made significant progress toward deploying an Active Directory (AD) infrastructure. Heterogeneous system environments and a distributed management model have complicated this. With most directorates participating in the AD forest, LLNL is now making steps toward utilizing AD as the core management infrastructure by integrating it tightly with other system management infrastructure tools such as software distribution, patching, account management, and authentication for UNIX and Mac OSX systems.

Dynamic Expressway Design Concepts
W. Brian Sedlacek - LANL
This presentation will describe the methods used at LANL for installing Windows Security Configurations and Applications, as well as Macintosh Applications and OS. Discussion will include the methods used in the past, how LANL is accomplishing this task now, and how they are preparing for the future. The tools are all automated and strive to keep up-to-date with changing applications while still being as consistent in their delivery as possible.

Diskless Windows Workstations
Rob Carr - SNL
Sandia has utilized thin client technology to allow users convenient access to classified networks and information. This has been satisfactory for accessing Access productivity tools (MS Office) or web based information, but is not practical for high-end graphics or engineering applications (e.g., ProEngineer) or for peer-to-peer collaboration tools (e.g., NetMeeting or Desktop Video Conferencing). To address this need, Sandia has implemented a Secure Diskless Windows Workstation capability. The capability is based on the BXP technology developed by Venturcom, Inc.

QCDOC Machines
Ed McFadden - BNL
Brookhaven National Laboratory, in collaboration with the Physics Department at Columbia University, maintains a one teraflop (TF) supercomputer used for calculations of Lattice Gauge Theory. The presentation will include items on the facility preparation, machine construction and reliability of the QCDSP, and the project status of the QCDOC machines. Some background on the QCDOC design, including the close similarity to the IBM BlueGene/L, the custom QCDOC-ASIC, and the nearest neighbor inter-node communication topology will be discussed. Hardware from both QCDSP and QCDOC will also be displayed.

Nortel Networks: Running a Business without Boundaries
Dean Fernandes, Office of the CIO, IS Network Services
Nortel Networks enterprise network spans 247 locations around the world and has a footprint similar to a Tier 2 Service Provider. Dean Fernandes will present an executive-level overview on how Information Services reduces costs, simplifies operations, improves productivity, and enhances the user experience within the Nortel Networks enterprise network. The IS team has transformed multiple communication networks into an IP-optimized network that today delivers Voice over IP, Wireless, and Multimedia. For example:

- VoIP saves Nortel Networks over $25M per annum in hard cost savings compared to traditional telephony solutions
- Over 1,000 WLAN 802.11 access points
- 24,000 mobile/teleworkers - 15% increase in individual productivity reported and avoids $22M in annual RE spend
- Over 9,200 users from supplier community with extranet access
- 1,100 customers attend eLearning sessions each month and saves customers an estimated $18M in annual travel costs
- Optical Ethernet helps reduce global WAN spend by 30% while capacity increased 39% in 2003

11:00 AM

Development and Deployment of Mobile Device Applications: Lessons Learned and Hopes for the Future
Ray Fink, Greg Miller - INEEL
Over the past three years, a development team at the Idaho National Engineering and Environmental Laboratory has been working with Bechtel National, Inc. (the prime operating contractor at the INEEL) to exploit recent advances in mobile computing technologies for use in field engineering, procurement, and construction activities. These emerging technologies (such as PDA's, tablet computers, wireless networking, XML, and Web services protocols) can provide the basis for a dramatic increase in the amount of information available to knowledgeable workers in field environments and for substantial reductions in the cost associated with field data collection. Some of the specific issues to be discussed include:

- Experience with several software development environments (they note that the software environments for mobile devices are evolving at least as rapidly as the device hardware)
- Challenges in user interface design for small-format devices
- Design considerations for intermittent network availability
- Limitations of current device technologies, especially battery life, and legibility of display screens in outdoor work environment
- Integration with existing data management systems
- Increasing the scope of mobile device applications to subsume related fieldwork processes that are currently paper-based
- Cost analysis and related issues, such as device breakage and property management considerations.

What is a Framework? Web Service? Why Do You Want Them?
Wayne Simpson – INEEL
A framework, in technical terms, is a group of software components that work interactively with requests from other components or objects to generate a consistent output. So the question would be, "Why does our company want a standard framework?" When done properly, implementing framework alongside web services allows the complexity of the code, such as error checking, unit testing, complex database connections, XML reads, etc., to reside within the framework and be consumed through the use of web services. This considerably reduces the development time for applications.

Incorporating Common UNIX Printing System (CUPS) and Samba in a Heterogeneous Environment
Tina Naranjo - LANL
This presentation will include information on LANL's computing environment, which consists of Solaris, Linux, HP, Compaq Tru64, IRIX, Win2k, XP and Mac OS 10.x. How do they get all these different Operating Systems to print using one print server/methodology? LANL is currently using EasySoftware's product called ESP Print Pro, which is built on CUPS. Samba is used to communicate with the PCs. Printers added to the print servers get detected automatically by each of the UNIXs and Macs. Samba serves the printers and drivers to the PCs. Users can add their own printers simply by double clicking an icon and the printer along with the drivers are installed. By CUPS supporting IPP, CUPS can accept and send print jobs almost anywhere. Printing via IPP eliminates adding printers on each user's system locally. Users see all of the printers and select which printer they would like to print.

Bringing Desktop Support In Line with the ISO9901: 2000 Standard
Cynthia Caton - SNL
There is an initiative at SNL to develop a Quality Management System and Implementation Plan for eventual ISO9001: 2000 compliance/certification. The plan includes desktop providers and partners. This presentation provides an overview of the methodology used to support the initiative as well as the status of the project.

Demonstration of Linux Security Tool Easily Configured via a Web Interface
Mark Holbrook – LLNL
The Linux Security Tool is modular, configurable, and "undoable". Together with a "Secure UNIX Configuration Requirements" document, the <?xml:namespace prefix = st1 ns = "urn:schemas-microsoft-com:office:smarttags" />SAUSS (Sandia UNIX Security Script) configures the security of a Linux OS based machine – workstation or server. The document consists of a checklist of items with appropriate manual configuration instructions as needed. A corporately approved VPN firewall is included in the tool. All the components are provided from an OEM distribution of Linux and have been tested on Red Hat Linux to date. It is portable to other flavors of UNIX and written strictly in the bourne shell.

Information Security -- Using Applied Hacking to Protect Your Information Assets
Josh Cohen and Jesse D'aguanno, Polestar Applied Technology
Worried about your network security? Should you be? This talk covers methods to proactively test and secure your network. Topics covered will include use and application of hacking tools, concepts for securing web-driven applications, and common misuse of security measures. This presentation will also include live a demonstration of applied hacking techniques against several operating systems and software packages (e.g., Linux, Windows, and Notes).

1:15 PM

Panel Session – Cyber Security Strategies/Issues
Gary Lee – Moderator, LANL
Panel members representing various laboratories will discuss cyber security strategies and challenges. Audience participation is requested.

Fun with Active Directory
Howard Wright – LLNL
This informal presentation will focus on some of the things LLNL has implemented in their domain to make it more secure and to enhance the customer experience. Security topics will include best practices, restricted groups, and other security settings. Topics outside of the security realm will include adding the active directory search engine to the menu bar (sounds easy until you've tried), using the Distributed File System (DFS), mapping home directories, and other topics. The goal is for everyone to walk away with an idea or two that they can use with their Active Directory implementation. Copies of the scripts will be made available, assuming the appropriate permissions are received.

Integrating Mac OS into a UNIX Centric Environment
John Michel - LANL
This presentation describes the LANL X Division Computer Support Team's efforts to integrate Mac OSX into an existing UNIX centric environment. Issues such as central authentication (NIS vs. Win AD), one time passwords, central home space, and distributed software management will be described. Problems encountered and reasons for specific platform management decisions will be discussed.

2:15 PM

Sandia's Wireless Infrastructure Project
Scott Marburger - SNL
Development of wireless technologies started with test beds to investigate various architectures and vendor implementations. Feasibility of wireless deployment was shown through pilot exercises of the most promising technologies. Successful pilots lead to specifications for production wireless systems. The specifications will be used to develop deployment strategies and costs with input from Technology Development and the Computer Support organizations to ensure the strategies fit within the existing Sandia support structure. Deployment sites will be chosen after a review of user survey data with consideration toward bringing wireless coverage to a maximum number of users with the budget available. Initial deployments will be conducted by development and operations personnel working in tandem, with the goal of transitioning towards full operations support for future deployments.

Multi-Tiered Approach to SMTP Security
Dirck Copeland - INEEL
The topics covered in this presentation include:
- The enterprise anti-spam implementation at the INEEL
- How the multiple levels of spam and virus protection thwart the efforts of spammers and virus writers
- How Sendmail Switch uses "Real-time Black Hole Lists" to check for the existence of spammer sites and drops email from those sources
- Discussion on mass mailing worms, such as "My Doom", and their delivery techniques
- E-mail appliances, such as Iron mail, and techniques they use to implement spam prevention
- E-mail virus scanning and its effectiveness.

Evaluation for HLA Logging, Record and Playback Utilities
Barry Hansen – INEEL
High Level Architecture (HLA) is a standard originally developed by DOD to permit the inter-connectivity of simulation models. The INEEL will review the current state of the technology and the lessons learned from a small implementation that utilizes multiple HLA runtimes and logging and replay packages.

Protocol Tunneling: The Good, the Bad, and the Ugly
Jeff Schibonski – ANL-W
This presentation will help system administrators and cyber-security personnel understand the good and bad aspects of protocol tunnels and will provide an increased awareness of protocol tunneling methods and how they can be used to circumvent security measures. It includes examples of how protocol tunneling is used, demonstrates an implementation of protocol tunneling, and details an experiment that tests an IDS's ability to detect misuse through an HTTP tunnel.

High Performance Technical Computing at PNNL
David Cowley - PNNL
The William R. Wiley Environmental Molecular Sciences Laboratory, a user facility located on the Pacific Northwest National Laboratory (PNNL) campus, hosts the Molecular Science Computing Facility (MSCF), which houses one of the world's fastest supercomputers and largest ATA disk-based storage systems. The three cornerstones of the MSCF are 1) MPP2, a 1960-processor Linux-based parallel cluster; 2) MPP2's 53 terabyte Lustre parallel file system; and 3) NWfs, a scalable ATA disk-based long term storage system. Using the capabilities of the MSCF, PNNL is pioneering new high-performance technical computing (HPTC) concepts: science-driven computing, center profiling, and active storage.

IBM Software Middleware Strategy
Mr. Bill Rice, Manager - IBM Federal Civilian Software Sales
This session will review the IBM Software Middleware Strategy, with a focus on issues and challenges facing DOE and other Government Agencies, such as integration across Business Applications and Processes to allow your agency to respond faster to customer needs and adapt quickly to change. IBM will discuss its On Demand for Government Strategy, Solutions and References. Additional topic areas will include Portal Technology, Collaboration, and Business Integration. Many Department of Energy Labs have already made some investments in technology in some of these areas, and IBM will explore how your agency can leverage its current investment into these technology areas in the future.

3:15 PM

Data Management and Software Quality Issues When Supporting Evolving Production Environments
Rita Wells - INEEL
This presentation will focus on the Configuration Management and Change Control rigorously applied to an automated support system, Transuranic Reporting, Inventory, and Processing System (TRIPS), which enabled delivery of 3110m^3 of TRU Waste to the permanent repository. Data management and software quality provided capture of quality record information to support the project. The data management and software quality techniques applied to the project will be detailed and lessons learned reviewed.

Mobile Computing Using BlackBerry Wireless Devices
Richard Hill - INEEL
The presentation will include topics such as:

- Support of standard cell phone functions/features integrated with your synchronized desktop address books, voice mail, using push technology to extend an enterprise email and calendaring service to your current location, anytime, anywhere (within reach of your cell phone provider), integrated with messaging methods (email, SMS, PIN), wireless reconciliation, logging, Auto Text
- Features of the BlackBerry service that allow access to your corporate address books without storing large files on the PDA device (always current data), synchronized Memo Pad, address book and To-Do's with your local desktop computing environment
- Integration of BlackBerry Enterprise Servers for Lotus Domino and Exchange
- Implementation of Mobile Data Services (MDS) to provide Web access to internal and external Web servers, including the techniques/measures used to ensure security of servers/data
- Implementation of Attachment Services to provide the capability of reading email attachments in PDF, Word, Excel, and text formats via the mobile wireless BlackBerry PDA, as well as many other aspects of the BlackBerry interface.

Securing USB Functionality
Casey Cowart, Bernie Rymer - SNL
In this presentation, SNL will demonstrate the USB Mass Storage Device Manager program using a laptop and multiple USB devices to show its capabilities. The current version of the program will also be made available to Summit attendees.

Managed Hardware Program B2B: A Better Way to Run Business
Troy Juntunen - PNNL
PNNL staff will present how this new purchasing system will improve current operations, eventually leading to an MHP "store" that will offer a much needed option for business- and personal-use computing needs across the Lab. Also presented will be specific examples of how the new system will result in improved customer relations, both by providing additional purchasing power and time savings due to the improved and automated processes.

THORNE - A Perl Based Tool for Gathering and Storage of Detailed Information on Computers within a Subnet
Frank Clark, Anthony S. Clark – LANL
THORNE is a tool designed to simplify the gathering and storage of information useful to both system administrators as well as security administrators responsible for a subnet. Utilizing popular tools like arping and nmap, and its own system of operation system identification and system fingerprinting - information is gathered and stored in a database for later review and audit. The presentation will give an overview of how gathered data can be utilized for both network inventory and security audit purposes.

Cisco Security Agent Proactively Enforces Security Policy at the End-Node
Chris Townsend - Cisco
The Cisco Security Agent (CSA) goes beyond conventional endpoint security solutions by identifying and preventing malicious behavior before it can occur, thereby removing potential known and unknown security risks that threaten enterprise networks and applications. Because the Cisco Security Agent analyzes behavior rather than relying on signature matching, its solution provides robust protection and PROACTIVE security policy performance at the host level. Host level enforcement is more important than ever before; today's hackers exploit permitted protocols (such as SMTP and HTTP) and highjack encrypted (IPSEC and SSL) sessions to bypass network-level security, only behavioral-based end node protection will effectively mitigate these attacks.

Birds of a Feather Session – Patch Management
Bri Rolston – Moderator, INEEL

The Patch Management session will provide a gathering of other lab experts on patch management or those who wish to learn more about managing patches in their environment. Topics covered include how to determine which patches need to be deployed, what tools are being used to deploy patches, what levels of patching are reasonable, and how to verify if the patches are sufficiently deployed through the environment. UNIX, Linus, and Mac as well as Microsoft will be covered because of the diverse nature of most of the labs' computing environments.

Wednesday, June 23
Presentation Abstracts

8:00 AM

Panel Session – Wireless Strategies
Lynda Brighton – Moderator, INEEL
Panel members representing various laboratories will discuss wireless strategies and challenges. Audience participation is requested.

Peer-to-Peer Networking in an Ad Hoc Mobile Environment
Stuart Walsh - INEEL
To support the Department of Homeland Security, the INEEL and SNL developed ad hoc sensor network software to establish a peer-to-peer network between sensors and information users. The software abstracts the complexity of communicating across various transport mechanisms and protocols, allowing all types of ad hoc computing devices, from sensor to servers, to interoperate as one heterogeneous network. Using the software, sensors or end user clients can be stationary or mobile and can dynamically switch between transport mechanisms to maintain communication. The system was pilot tested in the Boston Metro Subway system with chemical sensors.

New Enhancements to SMS that Provide Valuable New Services
Margaret Chan, Stacy Sayre - LANL
This presentation will discuss the following:
- Web Reporting, easy web interface to examine your collections
- Security Update Service, Windows update service through SMS, easy patching and tracking

Both services are valuable in light of recent events. LANL is committed to helping you confront the challenge.

Securing Endpoints without Signatures: A Policy Based Approach to Host Intrusion Detection
Ankita Singh, Federal Network Services, Inc.
Cisco Security Agent provides threat protection for server and desktop computing systems, also known as endpoints. It identifies and prevents malicious behavior, thereby eliminating known and unknown ("Day Zero") security risks and helping to reduce operational costs. CSA aggregates and extends multiple endpoint security functions by providing host intrusion prevention, distributed firewall capabilities, malicious mobile code protection, operating system integrity assurance, and audit log consolidation, all within a single product. And because CSA analyzes behavior rather than relying on signature matching, it provides robust protection with reduced operational costs.

9:00 AM

Insider Threat: If You Can't Trust Your System Administrators
Tom Klitsner – SNL
This presentation will cover a set of principles called "TRIP-am" that can be used to guide the actions an organization takes when implementing measures (policies, procedures, technical solutions, etc.) aimed at protecting their computer systems and information. TRIP-am stands for: **T**rust few and verify, **R**educe the noise, make **I**ntent clear and undeniable, **P**rotect the innocent; and **a**ppearance **m**atters. SNL will discuss what these principles mean, examples of cyber security measures that can be implemented, and how these principles can be used to gain buy-in from both the user and system administrator communities for these corporate security measures.

Automated Metrics Reporting with Value Added
Hope Niblick - SNL
The California location of Sandia National Laboratories uses an in-house developed application to gather, organize, view, and report metrics that relate to server support, collaboration strategies, technical library, and desktop support. The Metrics application allows users to enter metric data directly, or imports information from external sources, if available. Once the data is available, the users and their managers can export various time periods for reports, which are created in Excel. Custom graphs are generated, or the user can create their own graphs in Excel as needed. The presentation will include an explanation of the types of metrics gathered and solutions that were devised to gather the data in each case, a live demonstration of how the application gathers metric data, as well as a demonstration of reports that can be generated.

CCN-2 University
Gary Lee - LANL
The LANL Departmental Computing (CCN-2) Group is developing an internal education and training program for employees. The purpose of the presentation will be to provide a firm foundation in both administrative and technical areas. This program will replace the current method of ad hoc learning, which is inconsistent and inefficient, with one focused on CCN-2 best practices, standards, and tools.

Industrial Automation Controls HMI Design and Its Affects on Productivity and Safety
Michael Vollmer – ANL-W
The HMI has become an enormous time saving and powerful tool in controlling, monitoring, and data archiving of a wide range of facility environment systems and industrial process equipment. The amount of information that these machines can accumulate and present to the operator has continued to grow with newer and faster Programmable Logic Controllers (PLCs); new and innovative motion control systems; affordable field I/O devices; faster and more reliable industrial network options; and the growing environmental monitoring requirements to meet local, state, and federal regulations. All of the technological advances in the recent decade can lead to an environment of information overload. This information overload, and the effects it has on the people tasked to use it on an hourly basis, is the premise of this presentation.

Using the GNU Configuration Engine to Automate Management of a Heterogeneous UNIX/Linux Environment
Ahmad Douglas - LANL
The Configuration Engine (CF Engine) is a powerful tool, which, through a flexible user-defined class-based environment, allows for automated enforcement of a machine configuration policy. LANL also employed the CF Engine for more advanced tasks, including the configuration of freshly installed machines, and for the enforcement of a TCP Wrappers-based security policy. The presentation will detail the ways in which LANL has put CF Engine to use, and presents suggestions for how this valuable tool can assist in managing your UNIX-based environment.

Complete Patch Management
Candice Wagner, Network America
LANDesk® Patch Manager extends the power of LANDesk Management Suite to automate vulnerability assessment, remediation and patch management across heterogeneous IT environments. Quickly establish baseline OS and application security.

- Leverage asset inventory data to evaluate current patch status
- Identify vulnerabilities against industry standard information sources
- Review and download available patches
- Efficiently remediate known vulnerabilities through automated targeting and patch distribution
- Establish active management policies that automatically maintain patch currency
- LANDesk Patch Manager 8 eases the patch management process through industry-leading integration and efficiency.

10:00 AM

Using Zone Lab's Integrity Product for Remote Configuration and Administration of Personal Firewalls
John Costanza - LANL
Zone Lab's Integrity Product allows centralized configuration control and administration of personal firewall clients installed on deployed Windows systems. It also allows centralized collection of log files that can be used in an intrusion detection system. This isn't a sales pitch for Integrity, but rather what LLNL has done and lessons learned from deploying the product at Los Alamos.

Docu-Search - Enhanced Web Search Capability Based on Oracle Search Engine
Curtis Stewart - INEEL
The INEEL developed an enhanced search capability (Docu-Search) based on the Oracle search engine that searches web sites, databases, document indexes, and document content, then presents the results in a format that enables further search refinement. What's unique about this implementation? Definitely, the drill down! Do a search using the "typical" search tool and the result will be a long list of hits ranked by perceived relevance, and that's it. With INEEL's Docu-Search, the initial search is only the beginning. Users can refine search results by specific data sources (web pages, controlled documents, drawings, employee directory…), by record types or functional categories (R&D, Engineering, Administration, Communications…), by media types (electronic file, hardcopy…), by facility (Idaho Falls Offices, Test Reactor Area…), by create date, by additional search terms, and more. Docu-Search enables employees to find information quickly and efficiently, which improves productivity. The Six Sigma team estimates a cost savings of roughly $1.5 million annually. Also, the technology was implemented at a relatively low cost using existing licensed software tools. It is easy and straightforward to administrate. Furthermore, the product is scalable and can be migrated to any platform that will run Oracle. The INEEL's Docu-Search can currently access and link to over 2.2 million records and is growing daily.

Sophisticated Training Needs: Supporting Advanced Training Simulations and Training Community Needs via the Web
Bob Richards - INEEL
Two training related applications are presented. The first application is a multimedia training simulation delivered nationwide over the Web. Bechtel Corporate funded an R&D effort to look at the feasibility of delivering an audio rich still-graphics-based state-of-the-art training simulation over the web. The second application presented is the Cross-Cutting Training Forum (CCTF). This web-based tool is a type of knowledge management tool—it supports a community of practice, potentially all the training managers across DOE (federal and contractors). The CCTF was created to replace a failed cataloging effort.

Intelligent Solutions for Application Interfaces and Data Analysis
Thane Price - INEEL
The INEEL has implemented business intelligence software to analyze the medical information that they gather for our employees. The implementation of this software will continue to increase productivity of the doctors as well as giving them tools not previously available for analysis. The solution was easily implemented and the software was relatively inexpensive but contains excellent functionality. The INEEL has also implemented automation technology that was developed in-house for enabling better process scheduling for Oracle Financials and Passport. This automation system has given functionality not available out of the box for complex dependencies and integration between systems as well as failure notification.

Custom Mac OS X Setup via Apple Script Studio and Command Line Tools
Will Jorgensen - PNNL
PNNL has implemented a program whereby staff can select from a variety of systems that are imaged and pre-configured for optimal use by PNNL staff. Some configuration, however, cannot be done until the end user has the computer in hand. In order to allow staff the ability to use their machine as quickly and with as little technical support as possible, PNNL has developed an automated setup utility called MHPSetup for Mac OS X computers.

Red Hat Desktop Directions
Nick Carr, Senior Enterprise Marketing Manager
Historically known for concentrating on Linux products for the server market, in early 2004 Red Hat broadened its focus to encompass the Linux desktop. This presentation will describe Red Hat's current desktop products, and outline technology plans for future desktop offerings. The session will also provide time for attendees to provide product requirements and suggestions.

11:00 AM

Panel Session: Standard Configurations across Platforms and Partitions – Can We Stay Ahead of the Auditors?
Randy Cardon - LANL
Los Alamos has developed a generic guideline for configuring various OSs to be used in the LANL networking environment. The generic guideline is used as the base for developing OS-specific guidelines for the "standard" OSs used at LANL. The guidelines are developed and reviewed by a team that has representatives from the various OSs to ensure the guidelines remain consistent as possible across the platforms. This presentation will consist of a short panel discussion and then open it up for audience participation.

History of STOW and SAFE – Security Configuration Tool
Brian Sedlacek – LANL
This presentation will describe how the current security configuration tool for Windows at LANL, Security Tool on Windows (STOW), evolved. LANL will also describe the development of a new tool for verifying the current security configuration of a Windows system, Security Analysis For Everyone (SAFE).

Web Content Management for Training
Ron Stewart – INEEL
INEEL's Center for Performance Improvement (CPI) has been involved in several projects over the past year, focusing on providing flexible, efficient Web content management capabilities to communications and training development personnel. These projects have focused on:

- Providing required content management capabilities to content owners/developers while minimizing the need for those content managers to be fluent in HTML or other Web technologies
- Providing those capabilities while minimizing the risk of the content manager inadvertently compromising the site's consistency of presentation or integrity of the site's navigation
- Minimizing the role of IT personnel in Web site and content management after initial site deployment.

By combining COTS products, custom database-driven Web-based applications, a custom delivery framework, and an emphasis on Web standards, those projects have succeeded in meeting the above requirements.

A Generic XML Framework Supporting Application Portability and 3-Tier RAD
Tom Kaness – INEEL
The INEEL will present a small framework that has given them gains towards easier, faster, and more efficient application development. The benefits gained from the use of a generic, small XML framework will also be addressed. This presentation will be of great benefit to those interested in a generic XML framework that facilitates rapid and flexible application development. The presentation will include downloadable code samples and the XML framework for use in any .Net project.

Use of netOctopus Using Its Notification System on Mac OS X Systems
Gary Simon – SNL
For certain types of software updates, such as a complete COE update, if the update was pushed during the working part of the day, it could be a long and disruptive installation for the user. SNL found that users would prefer to run the update when their work schedule allowed. In order to accomplish this, they made use of netOctopus' built-in notification system. When a system comes on line, it notifies its Administrator that it is available; and then the administrator can send it commands. Through the use of a "logon" script, one can keep track of what versions of software are installed on the client computer. If an update needs to be installed, use the Notification System to determine if the client needs to be updated or not. A small application can then be sent to the client that will allow the user to either install the update then, wait and install the update later, or not install the update at all. When the user decides to install the update, they press a button and install the update from an installer on our Corporate Applications Server. SNL also uses the Notification System to automatically install emergency patches in the background. This is used for "Mandatory" software updates and Virus Definitions Updates.

Integrated Security: Can Policy Overcome Budget or Product Issues?
Robert Deitz II, Founder and CEO of Government Technology Solutions
This presentation is designed to be a interactive discussion between attendees on problems they are experiencing from the management- (CIO) level specific to Information Assurance (IA), with some possible ideas presented by the speaker to address current issues. Robert has day-to-day involvement with many different Government agencies as well as manufacturers, contractors, industry technology leaders and visionaries and has prepared a presentation that may shake current thinking. The ideas presented are based on current and past real world examples and experiences, so be prepared to ask questions or challenge any topic covered!

1:15 PM

DOE Unclassified Cyber Security Program Certification/Accreditation Process
Larry L. Lightner – INEEL
This presentation will discuss the impact of implementing the DOE Unclassified Cyber Security Program Certification/Accreditation Process. Attention will be given to identifying the difficulties associated with implementing such a process as well as the positive and negative consequences of implementation.

Instant Team Collaboration (Web Conferencing, Instant Messaging, and Team Workplaces)
John Payne – INEEL
There is an emerging trend to collaborate with colleagues, suppliers, partners, and customers through Web conferencing, instant messaging, and team workplaces. Instant messaging and Web conferencing can help speed communication, reduce travel expenses and produce results in a real-time interactive environment. Team workplaces let workgroups create common work environments, communicate in real-time and share and organize ideas, content, and tasks related to projects or initiatives in a centralized, accessible, yet secure location.

Performance-Based Training on the Web: Interactive Training Utilizing New Web-Based Technologies
Andy Gibbons – INEEL
The ability to create and deliver interactive and instructionally sound performance-based training (the doing part of learning) delivered through new and emerging technologies has always been explored for its great potential for efficiency, effectiveness and cost savings. The INEEL has recently taken a bold step with the creation of a web-based Radiological Worker Practical training course. This unique method utilized the power of Macromedia's Cold Fusion and Flash products to make this training a reality and a success. This presentation will provide insight into how the INEEL made this difficult transition from the classroom to the Web, utilizing new and powerful emerging technologies.

The Ten Commandments of the Enterprise-Level Information Manager
Colin Groves – ANL-W
This presentation distills the principles and axioms into an easy-to-digest list of "Ten Commandments," to which information managers can refer for their administration of network, database, visual media and other information-related services. It also supplies a much-needed perspective on the enterprise, which allows information managers to anchor them philosophically and formulate productive relationships between their services and the enterprise-as-client.

Potential Commercial Solutions that Can Verify the Integrity of Remote Hosts Connecting to Your Internal Network
Sam Jones - SNL
After the Blaster virus, SNL became very concerned about how secure the (outside) systems were that were connecting to their internal network via dial-up and VPN. Sam Jones is currently leading a pilot that is testing the Sygate Secure Enterprise suite. SNL is particularly interested in verifying that anti-virus and MS patches are current before the system is allowed onto their internal network. SNL would like to share what they learned from their pilot; and if the pilot is successful, they will share how they deployed the product into their environment.

Why Apple in Enterprise and Science
Ron Ustach, Apple
Apple, its products and services, are fundamentally different than they were five years ago. In this presentation, they discuss why Apple makes sense for your enterprise and scientific computing efforts. They review their products, their support, and their people. At Apple, they believe they are more than just another hardware or software company; they are a company that builds technology around people and the way they solve problems. They build their technology based on the challenges their customers face every day, and they do it in a way that makes it hard to imagine using technology in any other way. Apple was the first company to provide the graphical user interface, the basis for all commercial software applications; they were the first to use a mouse as an input and navigational tool; and more recently, they were the first to bring legal and easy music downloads to the public on every platform. Apple looks not only at the problem to be solved, but at the human element that will make the solution a completely obvious choice, one that no one else considered. They will challenge your perceptions of who Apple is as a company, and present the technology that will make you “think again” about Apple.

CIO Panel Session
Becky Verastegui – Moderator, CIO Oak Ridge National Laboratory
Chief Information Officers from across the DOE complex will discuss the business drivers and trends in information technology that make the “system of labs” so successful. The CIOs will speak on using technology to meet the business challenges of demanding laboratory and DOE customers. Each CIO will speak on hot topics of interest at their Labs. They will also conduct a Question and Answer session, so bring your hard questions!